

**TOPOGRAPHIC SURVEY CONTROL POINT RECORD**

STATION LONG NAME	MU03
STATION NUMBER	MU03
4 CHAR ID	MU03
COUNTRY	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	09 JUL 2005

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	X		1
OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
APPROACH PHOTOGRAPHS	X		1
CARDINAL POINT PHOTOGRAPHS	X		2

**RECORD OF VISITS**

DATE OF VISIT	NAME	UNIT	REMARKS

**ADDITIONAL DETAILS/ENCLOSURES**

CONTENTS	NO OF PAGES

## **FIELD COORDINATE VALUES**

STATION LONG NAME	MU03
4 CHAR ID	MU03
STATION NUMBER	MU03

THIS STATION IS NEW	YES
IDENTICAL / NEARLY IDENTICAL WITH	N/A

### **FIELD VALUES** FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N	29°12' 00.3"
LONGITUDE E	044°43' 46.2"
HT (M)	+343
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R MT 73704 30184
SURVEYING AGENCY	IGRS

FIELD INPUT BY: L/CPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
FIELD CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

## OFFICE COORDINATE VALUES

### WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	29° 12' 00.70580''
LONGITUDE E	044° 43' 46.54858''
SPHEROIDAL HT (M)	353.643
EGM96 GEOID MODEL HT (M)	-2.491
ORTHOMETRIC HT (M)	356.134
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.018
RELATIVE HEIGHT ACCURACY (M)	0.041
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

### LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

## STATION MONUMENT AND SITE DETAILS

<b>STATION LONG NAME: MU03</b>	
<b>STATION NUMBER: MU03</b>	<b>4 CHAR ID: MU03</b>
<b>LOCATION: AL MUTHANNA</b>	<b>COUNTRY: IRAQ</b>
<b>STATION ADDRESS:</b> N/A	
<b>TEL: N/A</b>	<b>FAX: N/A</b>
<b>LAND OWNER ADDRESS:</b> N/A	
<b>TEL: N/A</b>	<b>FAX: N/A</b>
<b>TYPE OF MARK: HARN</b>	
<b>CONDITION: GOOD</b>	
<b>MARK SETTING: REBAR</b>	<b>NO OF REBARS:1</b>

### MONUMENT PHOTO / SKETCH



<b>PREPARED BY: L/CPL COWARD</b>	<b>UNIT: IGRS</b>	<b>DATE: 09 JUL 05</b>
<b>CHECKED BY: CPL RIGGOT</b>	<b>UNIT: IGRS</b>	<b>DATE: 09 JUL 05</b>

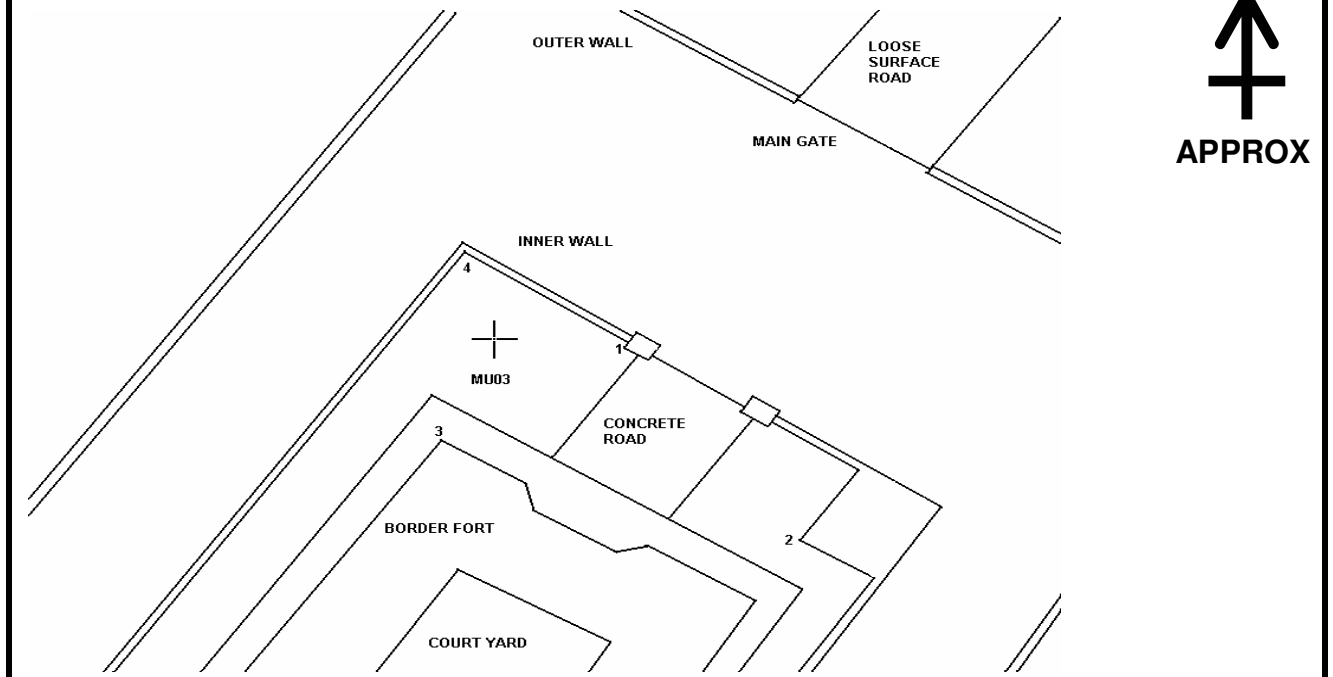
# STATION DIAGRAM

STATION LONG NAME: MU03

STATION NUMBER: MU03

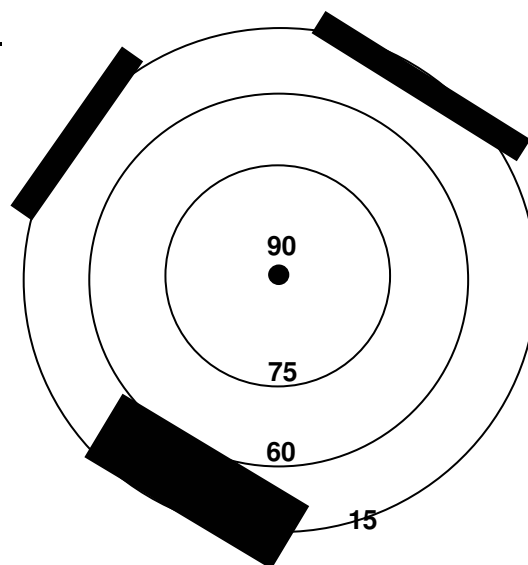
4 CHAR ID: MU03

NOT TO SCALE



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE
1	COLUMN OF GATE	270	3.55M
2	CORNER OF BUILDING	303	15.67M
3	NORTH CORNER OF BORDER FORT	40	4.57M
4	NORTH CORNER OF INNER WALL	130	2.26M

## OBSCURITY DETAILS



PREPARED BY: LCPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

# ACCESS MAP

STATION LONG NAME: MU03

STATION NUMBER: MU03

4 CHAR ID: MU03

MAP DETAILS

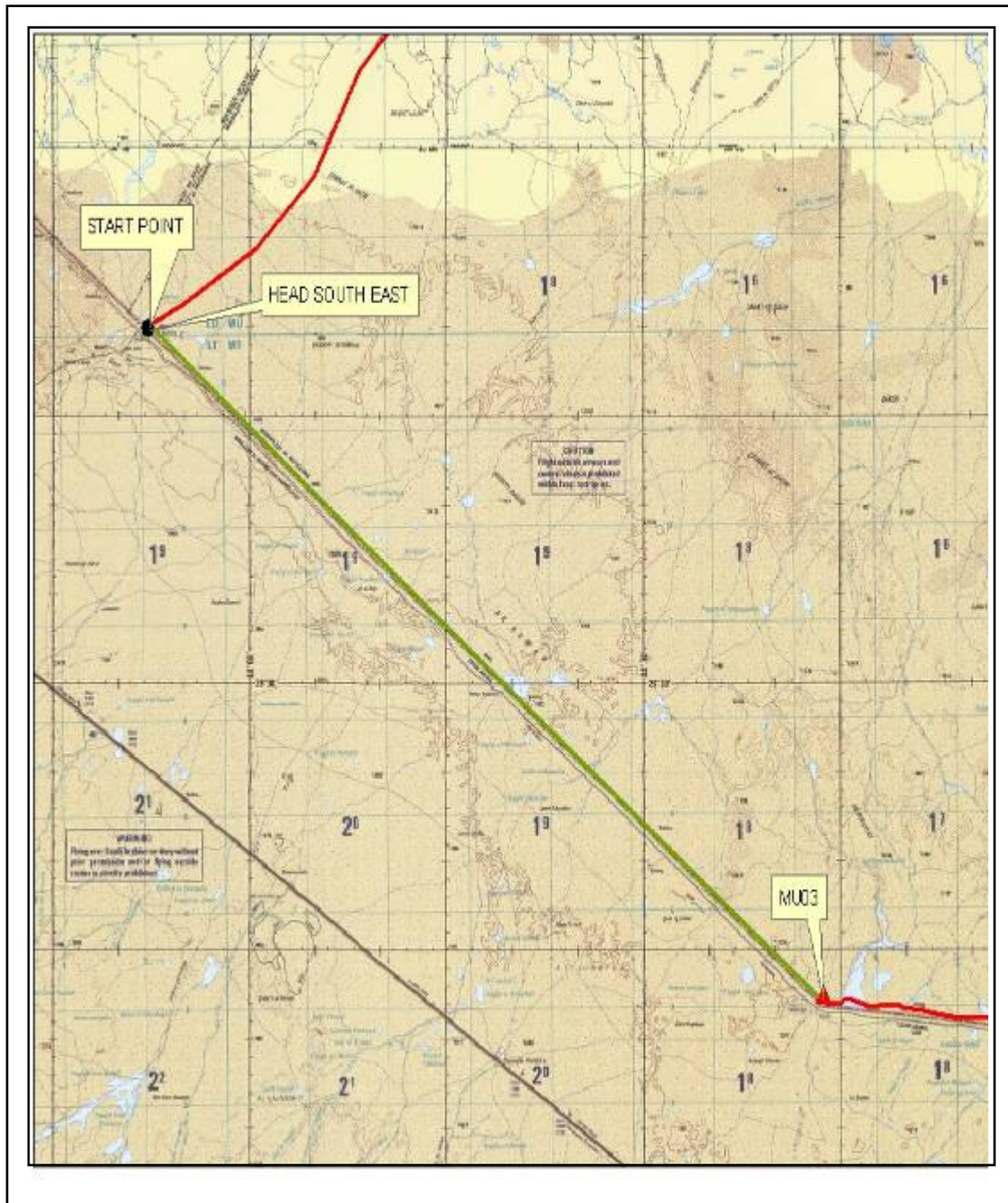
SERIES: ROUTES MAP

SHEET: AL MUTHANNA  
(NORTH)

EDITION: 3

SCALE: 1:250 000

GR: 38R MT 73705 30183



PREPARED BY: SPR WILLIE

UNIT: IGRS

DATE: 10 JUL 05

CHECKED BY: L/CPL LOCKHART

UNIT: IGRS

DATE: 10 JUL 05

## ACCESS DESCRIPTION

<b>STATION LONG NAME: MU03</b>	
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<b>MAP DETAILS</b>	<b>SERIES: ROUTES MAP</b>	<b>SHEET: AL MUTHANNA</b>
<b>EDITION: 3</b>	<b>SCALE: 1:250 000</b>	<b>GR: 38R MT73705 30183</b>

From junction near Border Fort Al Jumymaa at Grid Reference 38R LU91600 00900 travel southeast for approximately 108km. The point located at Border Fort An Saab at Grid Reference MT73705 30183 at the Northwestern corner of the Fort inside the perimeter fence. Harn identified by orange Survey Maker marks the point. The fine point is an indent on the head of rebar/rod.

<b>PREPARED BY: SPR WILLIE</b>	<b>UNIT: IGRS</b>	<b>DATE: 10 JUL 05</b>
<b>CHECKED BY: L/CPL COWARD</b>	<b>UNIT: IGRS</b>	<b>DATE: 10 JUL 05</b>

## APPROACH PHOTOGRAPHS

STATION LONG NAME: MU03

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NEAR APPROACH FACING WEST



FAR APPROACH FACING SOUTH



TAKEN BY: LCPL COWARD

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## CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU03

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NORTH



SOUTH



TAKEN BY: L/CPL COWARD

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# CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU03

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EAST



WEST



TAKEN BY: LCPL COWARD

DATE TAKEN: 09 JUL 2005